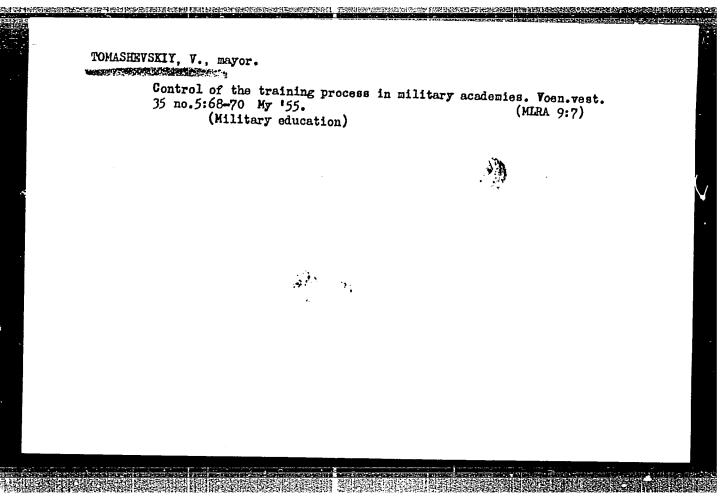
TOMASHEVSKIY, V., mayor.

Work on methodology in academies. Voen.vest. 36 no.11:
33-35 N '56.

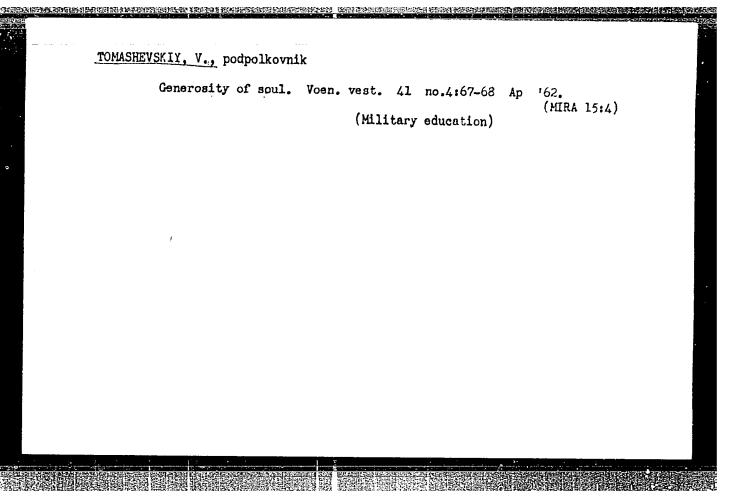
(Military education)



TOMASHEVSKIY, V., podpolkovnik; KALINICHENKO, F., polkovnik

New tasks and obsolete methods. Voen.vest. 42 no.9:77-20
S '62. (MIRA 15:8)

(Russia-Army-Officers)



TOMASHEVSKIY, V.L.; KHMEL'NITSKAYA, A.Z., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

[Technology of cardboard production] Tekhnologiia kartonazhnogo proizvodstva. Moskva, Pishchepromizdat, 1953. 170 p. (Paperboard) (MIRA 7:12)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

TOMASHEVSKIY, V.L.

Tekhnologiia kartonazhnogo proizvodstva (Technology of cardboard production). Moskva, Pishchepromizdat, 1953. 172 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

	Tekhnologiya Kartonazhnogo Proizvodstva (Technology of Cardboard Juction) Moskva, Pishchepromizdat, 1953.
Prod	uction) Moskva, Pishchepromizdat, 1953.
30:	N/5 718.5 .T6

TOMASHEVSKIY, V.T. (Leningrad)

Structural glass-reinforced plastics based on polyester and epoxide resins. Inzh.zhur. 2 no.2:38%-397 '62, (MIRA 15:6) (Glass reinforced plastics)

BECHE PROPERTY OF STATE AND A STATE OF THE PROPERTY OF THE PRO L 29811-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)IJP(c) ACC NR: AP6014213 SOURCE CODE: UR/0198/66/002/004/0007/0016 AUTHOR: Tomashevskiy, V. T. (Leningrad) 44.5 ORG: none TITLE: Effect of shear and the stress condition on the stability of an anisotropic cylinder SOURCE: Prikladnaya mekhanika, v. 2, no. 4, 1966, 7-16 TOPIC TAGS: stress analysis, stability contents, shear stress, elasticity theory, partial differential equation, variational method, cylindric stell structure ABSTRACT: The stability of an orthotropic circular cylinder is considered. The cylinder is made of a material that obeys Hocke's law and is pliable to shear displacement. The governing equations and the boundary conditions are obtained from the variational method, starting from the potential energy of deformation for the cylinder. In the derivation of these equations the variables u, v, w, φ, ψ are assumed to be linearly independent functions of the coordinates lpha and eta . For a closed cylinder, the boundary conditions are given by the equations Card 1/2

L 29811-66

ACC NR: AP6014213

$$\begin{split} \frac{\partial \Phi^{\bullet}}{\partial (u_{l})_{aa}} \, \delta \, (u_{l})_{a} &= 0; \\ \left[\frac{\partial \Phi^{\bullet}}{\partial (u_{l})_{a}} - \frac{\partial}{\partial \alpha} \, \frac{\partial \Phi^{\bullet}}{\partial (u_{l})_{aa}} - \frac{\partial}{\partial \beta} \, \frac{\partial \Phi^{\bullet}}{\partial (u_{l})_{a\beta}} \right] \delta u_{l} &= 0. \end{split}$$

As an illustration, the cylinder is assumed to be freely supported at its sides by elastic circular ribs. Numerical results are obtained and are given in tabular form where the critical pressure is listed with and without shear. It is shown that if the effects of the support or the shear effects on the stress distribution of the cylinder are neglected, inadmissible errors arise in the stability calculations of the anisotropic shell. Orig. art. has: 20 equations and 3 tables.

SUB CODE: 20/ SUBM DATE: 30Jul65/ ORIG REF: 004

Card 2/2 W

的现在分词,这种是一种,我们就是一个人,我们们就是一个人,我们们们是一个人,我们们们是一个人,我们们们是一个人,我们们是一个人,我们们们是一个人,我们们们们们的

20410-06 ENT(d)/ENT(m) ENP(w)/ENP(v)/ENP(J)/T/ENP(k)/ENA(h)/ETC(m)-6 ACC NR. AP6008406 WW/EM/RM(A) SOURCE CODE: UR/0374/66/000/001/0108/0115 AUTHOR: Tomashevskiy, V. T. (Leningrad) ORG: none TITLE: Axisymmetric deformation of a thick circular cylinder of fiber glass reinforced plastic reinforced with rigidity ribs مارو SOURCE: Mekhanika polimerov, no. 1, 1966, 108-115 TOPIC TAGS: fiberglass, reinforced plastic, plastic deformation, deformation rate, shell theory, reinforced shell structure ABSTRACT: A system of differential balance equations for a thick fiber glass reinforced plastic cylinder reinforced by rigidity ribs is given. A solution is given for the system in consideration of the compatibility of deformation for the shell and the ribs under limit conditions. The limits of application of the thin shell theory are determined, and suggestions on the choice of optimal reinforcement systems are presented. Orig. art. has: 19 formulas and 3 tables. [Based on author's abstract.] SUB CODE: 11/ SUBM DATE: 17Ju165/ ORIG REF: 002/ UDC: 678:639.37-43:678.506

TOMASHEVSKIY, V.T., kand. tekhn. nauk, inzhener-kapitan 3-go ranga

Synthetic construction materials in submarine building. Mor. sbor. 48 no.7:69-72 Jl '65. (MTRA 18:8)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

ACC NR: AP7006926 SOURCE CODE: UR/0198/67/003/001/0034/0041

AUTHOR: Tomashevskiy, V.T. (Leningrad)

ORG: none

TITLE: On a method of investigating the stability of anisotropic circular cylinders under arbitrary boundary conditions

SOURCE: Prikladnaya mekhankia, v. 3, no. 1, 1967, 34-41

TOPIC TAGS: cylindric shell, shell stability, shell buckling, throw stress, clastic clamping, clastic clamping factor ANISOTROPIC MEDIUM

ABSTRACT: A thin orthotropic circular cylindrical shell with faces supported by elastic rings is subjected to a combination of longitudinal uniformly distributed and lateral loads. The materials of both shell and supporting rings obey Hooke's law. An approximate method of investigating the stability of this shell under arbitrary boundary (support) conditions is proposed. The integral-mean value of the hoop stresses is introduced into the system of differential equations describing the prebuckling state of stress in the shell. The Bubnov-Galerkin method is used in deriving a system of equations from which the critical values of hoop stresses can be determined by equating the determinant of this system to zero. The possibility of approximating

Card 1/2

UDC: none

	•	26	ACC NR: AP70069:
fectly fixed (K = 1.0) rmining K for a given is of a numerical ag out the effects of	osed cylindric estigated as a ces the edge-c ical values of = 0) and perfe ved for determ Some results ssed, pointing	The buckling of a closts face edges is invertible in the critical state of the critical	is indicated. ? clamped along it an elastic coef; expression for clases of edges is derived. A shell by success calculation are
lary (support) conditions. 2 tables and [WA-52] [Vi	and of bounda ll. Orig. art	of their materials, behavior of the shell	characteristics on the buckling 19 formulas.
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lary (support) conditions. 2 tables and [WA-52] [Vi	and of bounda ll. Orig. art	of their materials, behavior of the shell	characteristics on the buckling 19 formulas.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

TOMASHEVSKIY, Ya.I.

Therapeutic value of vitamin B₁ and nicotinic acid in motor disorders of the stomach. Vrach.delo no.4:433-434 Ap '60.

是一个人,我们们的一个人,我们也不是一个人,我们们的一个人,我们们们的一个人,我们们们的一个人,我们们的一个人,我们们就是一个人,我们们就是一个人,我们们们们的

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I. Chernov) lechebnogo fakul teta L'vovskogo meditsinskogo instituta.

(THIAMINE) (NICOTINIC ACID) (STOMACH--DISEASES)

TOMASHEVSKIY, Ya.I.

Influence of vitamin B1 on the secretor, and 559.

function of the stomach. Vrach.delo no.5:537-539 My 59.

(MIRA 12:12) Influence of vitamin B_1 on the secretory and evacuatory motor

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I. Chernov) lechebnogo fakul'teta L'vovskogo meditsinskogo instituta. (HIAMINE) (STOMACH--DISEASES)

CIA-RDP86-00513R001756210006-3" APPROVED FOR RELEASE: 04/03/2001

对自己的人,不是是一个人的人,不是是一个人的人,不是是不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,我们是不是是一个人的人,我们是不是是是一个人的人,不是是不是是一个人的人,不是是不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人,不是是一个人的人

TOMASHEVSKIY, Ya.I.

Role of nicotinic acid in the regulation of the secretory and the evacuatory-motor function of the stomach. Vrach.delo no.9:985 S 159.

(MIRA 13:2)

1. Kafedra propedevticheskoy terapii (zaveduyushchiy - dotsent V.I. Chernov) lechebnogo fakuliteta Livovskogo meditsinskogo instituta.

(NICOTINIC ACID)

CHERNOV, V.I., dotsent; TOMASHEVSKIY, Ya.I.

Gastric secretory function in the treatment of peptic ulcer and chronic gastritis with Vitamin B₁ and nicotinic acid. Vrach. delo no.8:138-139 Ag '61. (MIRA 15:3)

TOMASHEVSKIY, Yurly Ivenovich; Kalvorman, Yurly Alchamatrovich;
DEGTYAGEV, Lev Highaylevich, DVET, Ye.m., ret.

[Mechanized casting of grinding media in childs] Mexhanizirovunnaia ctlivka melinahchikh tel v kekli. Cheliabinske, Cheliabinskee knizhnue izd-ve, 19el. 29 p. (MRK 17:9)

18(5), 28(1)

SOV/128-59-10-10/24

AUTHORS:

Pozdnyshev, V.M., Candidate of Technical Sciences, Sal'nikov, V.V., Krivopalov, Yu.I., Tomashevskiy, Yu.I., and Shabonov, N.S., Engi-

CONTROL OF THE PROPERTY OF THE

TITLE:

Conveyer Mould Machine for the Casting of Mill Balls

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 10, pp 30-31 (USSR)

ABSTRACT:

The authors present a technology for mass production of mill balls, which has been developed by the Nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya Chelyabinskogo sovnarkhoza (Scientific Research Institute for Technology of Machine Building Chelyabinsk Sovnarkhoz), together with the Katav-Ivanovyy yno-mekhanicheskiy zavod (Katav-Ivanovo Foundry Mechanical Factory). This technology is based on a conveyer mould machine with vetical plane and with continuous Priming (Fig.1). The basic part of the machine is a vertical closed chain (#1), on which the moulds are fastened and transported by special rolls (#2). The moulds have a traveling part (#3) and a fixed part (#3a). The chain moves in two gears on the frame (#4). The metal is poured with the pouring plat-

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

SOV/128-59-10-10/24

Conveyer Mould Machine for the Casting of Mill Balls

form (#5) onto that section of the chain which has the maximum tension (#6). At the present time, complete mechanization of mill ball production is being worked on. There are 2 photographs.

Card 2/2

POLAND/Cultivated Plants. Grains.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20283.

Author : Z. Tomeshevskiy, A. Brodovskeya.

: The Institute of Plant Cultivation and Acclimatization. : A Plan of Scientific Studies of Corn. (Plan nauchnykh Title

rabot po kukuruze).

Orig Pub: Biul. Inst. hodowli i aklimat. roslin, 1956, No 11,

Abstract: No abstract.

Card : 1/1

TCMASHIN, I.

More attention to the needs of workers on virgin lands. Sov. profsoiuzy 6 no.8:34-35 Jl 158. (HIBA 11:9)

1.Glavnyy agronom sovkhoza "Novo-Nikol'skiy" Akmolinskoy oblasti, Kazakhskoy SSR.

(Akmolinsk Province--Agricultural laborers)

TOMASHIVSKIY, D.I.

Relationship of plantar and palmar reflexes in epidermophytosis.

Vest. derm. 1 van. nc.2:26-32 165. (MIRA 18:10)

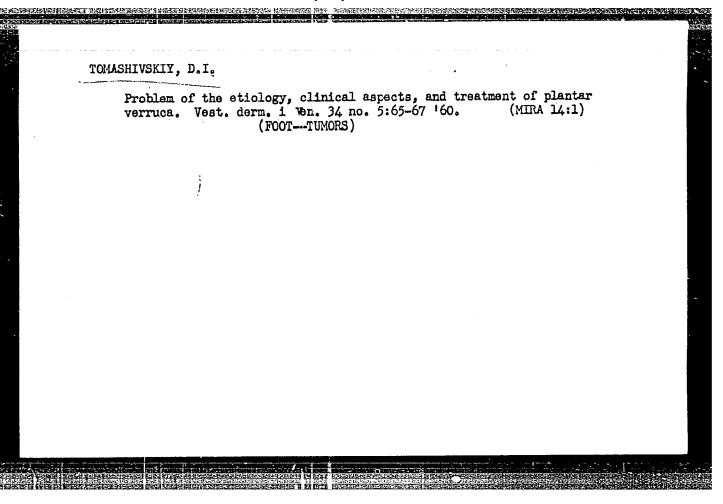
1. Kafedra kozhnykh i venericheskikh bollewney (zav. - prof. A.R. Shifrin) Ivano-Frankovskego meditsinskego instituta (nauchnyye rikovoditeli rabot - chlen-korrespondent AMN SSSR prof. P.V. Kozhevnikov i pref. A.R. Shifrin).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210006-3"

SHIFRIN, A.R., doktor med. nauk; TOMASHIVSKIY, D.I.

Secondary eruptions associated with antitularemia vaccination. Sov. med. 26 no.11:56-59 N'62 (MIRA 17:3)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - dok-tor meditsinskikh nauk A.R. Shifrin) Stanislavskogo meditsinskogo instituta (rektor - dotsent G.A. Babenko).



TOMASHKOVA, Yana [Tomaskova, Jana], doktor; PAVLASKOVA, Lidiya
[translator]; ERZHIZOVA, Ioza [Brizova, Joza], otv. red.

[Health and beauty care] Zabota o zdorov'e i krasote. Prague,
Izd-vo "Pratse," 1961. 118 p. (MIRA 15:4)

(HEAUTY CULTURE) (WOMEN—HEALTH AND HYGIENE)

TOMASHOV, A.D., inshener; AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk;
TOMASHOV, A.D., inshener; REVIN, I.A., inzhener, retsensent;
GOLOVIN, Te.S., kandidat tekhnicheskikh nauk, redaktor.

[Bearing units for rolling machinery] Podshipnikovye usly prokatnogo oborudovaniia. Moskva, Gos. nauchno-tekhn, izd-vo mashinostroit. i sudo-stroit. lit-ry, 1954. 290 p. (MRA 7:7)

'Rolling-mill machinery) (Bearings (Machinery))



:: IJP(c) JH/JD/WB/GD SOURCE CODE: UR/0000/65/000/000/0180/0190 ^AT6013797 ACC NR: AUTHOR: Tomashoz, N. D.; Zalivalov, P. P. ORG: none TITLE: Formation and growth of anodic oxide films on aluminum alloys SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2. Moscow, Izd-vo Metallurgiya, 1965, 180-190 TOPIC TAGS: anodization, aluminum base alloy, intermetallic compound, electric potential, corrosion ABSTRACT: Considering that the anodizing of alloys with a substantial content of alloy components involves special difficulties and, on the other hand, the anodic oxidation of homogeneously structured Al alloys has been fairly well investigated, this study deals with the anodic oxidation of heterogeneous Al alloys. To this end; the authors melted special binary alloys (15% Mn, 35% Si, 12% Fe, 46% Cu, 45% Mg, 55% 2%) in which the intermetallic compounds represented large crystals with surface area of from 1 to 2-3 mm². Voltage-time curves were plotted for the overall surface of the alloy as well as for the individual components of the alloy -- the eutectic and crystal. In addition, the alloy potential before and after anodic oxidation was messured with respect to a Hg2SO4 reference electrode. The anodizing was performed in 4N H2SO, at 25°C (current density 1 a/dm2, anodizing time 5 sec and 20 min). It is

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inAl6 get CuAl3 cry anodic fi maller cr to dissolv onset of a and Al-Zn as evidence tts origin individual tts struct guished as with Mn an MnAl6 and ancludes a protected ancludes a	covered with a stals, during an lm depending on rystals, as well ve, while larger anodizing pass i alloys leads to ced by the fact all value immedital Al alloy displatural components regards the ef and Si, for which is crystals) galloys with Fe and against corrosicalloys with Mg and and stalloys with Mg and stalloys with M	thin oxide film and podizing they may eith the location of crystals present crystals not present crystals not present nto the anodic film. an intensive dissoluthat the potential of ately after the anodic ays special features; on this basis, the fect of anodic oxidate the voltage increase et covered with a thind Cu, whose intermeton even when covered and Zn, which completes. Orig. art. has:	pass into anodic film ner completely dissoluted in the alloy and at the alloy surface directly at the all By contrast, the artion of their intermed the Al-Mg and Al-Zric current is discont of its own depending see groups of Al allowed sharply and the standard the standard film; allic compounds are by an oxide film; ally lack a protective	n. As for FeAl ₃ and two or pass into i their size; are most prone toy surface at the modizing of Al-Mg metallic components a alloys returns to mected. Thus, every on the nature of mys may be distinguished alloys ructural components the second group insufficiently and the third group oride film and so	
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CC NR: AT6013799 / () SOURCE CODE: UR/0000/65/000/000/020	0/0207
JTHOR: Tomashov, N. D.; Zalivelov, F. P.	B+1
RG: none	
ITLE: Investigation of the barrier layer of thick anodic films on alw	minum 27
OURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), oscow, Izd-vo Metallurgiya, 1965, 200-207	no. 2
OPIC TAGS: loop oscillograph, anodization, aluminum, oxide formation, lelectric breakdown, surface film/MPP-2 loop oscillograph, AV000 extra	corrosion, -pure Al
SSTRACT: Considering the widespread use of the method of thick-film a definite effect of the barrier layer on such properties of porous a prosion resistance and resistance to dielectric breakdown, the author	nodic films as
ne thickness of the barrier layer as a function of applied voltage, te lectrolyte concentration and anodizing time. The tests were performed	mperature, on specimens
20x20x2 mm) of AV000 extra-pure cast aluminum (99.99% Al), anodically alfatic electrolyte. The thickness of the barrier layer was determine echnique suggested by Hunter and Fowle (J. Electrochem. Soc., 1954, 10	d by the 1, 9, 481;
), 514). Findings: the thickness of the barrier layer increases linea	rly with the

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voltage applied (at the rate of somewhat more than 10 Å/v and decreases with increasing electrolyte temperature (owing to the attendant increase in the dissolving power of the electrolyte); it also decreases with increasing H2SO, concentration (from 2M to 8M), though not as steeply as with increasing temperature. As for the effect of anodizing time on barrier-layer thickness, this thickness changes only during the first few seconds, when the curve passes through a peak, whereupon it remains constant even for films whose anodizing time lasts for 15 min and longer. Curves plotted with the aid of an MPP-2 loop oscillograph show that the increase in barrier-layer thickness is accompanied by an increase in terminal voltage, as confirmed by measurements of ohmic resistance, which increases from 10 to 18 ohm-cm when the layer thickness increases from 50 to 300 A; as in the case of the effect of anodizing time, however, this increase soon passes through its peak and steadies out owing to the onset of the formation of the porous structure -- since the increase in current intensity enhances the aggressive effect of the acid (the ohmic resistance of the oxide film decreases in the pores). Hence, the following theory may be offered: the first pores in the oxide film arise at some defective spots, e.g. cracks or at the crystallite boundaries. The growth of the pore at the outer part of the barrier film is accompanied, at the film-metal interface, by the growth of a new layer of oxide whose individual cells are shaped like a semisphere whose convex side faces the metal. During the first few seconds of anodizing, when the peak thickness

Card 2/3

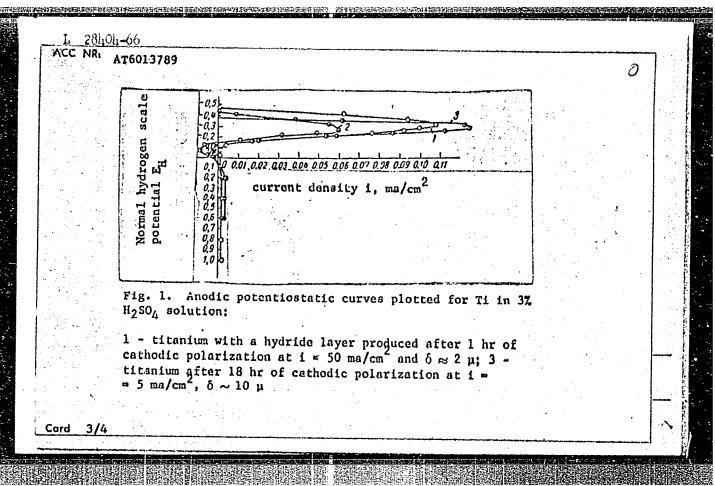
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covered b	y the pores, blocks" of	with the at porous anodi	the entire st tendant grow c films. In ayer via the	th of oxide the course pores, th	e cells r e of film us leadin	epresenti growth t g to the	ng the he formation	
of new la oxide fil barrier f	yers of oxid m, whatever ilm. Orig.	e. Thus, it its thicknes art. has: 7	may be assumes, grows about figures, 1 to DATE: 19Ju	med that t ve the bar able	he porous rier film	and from	the	
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-	ACC NR. AT6013785 (N) SOURCE CODE: UR/0000/65/000/000/0080/0102	
	AUTHOR: Tomashov, N. D. (Doctor of chemical sciences, Professor); Modestova, V. N.; Plavich, L. A.; Averoukh, A. B.	
İ	ORG; none	
	TITLE: Study of the electrochemical behavior of titanium	
	SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2 Moscow, Izd-vo Metallurgiya, 1965, 80-102	
	TOPIC TAGS: electrochemistry, corrosion, titanium, electric potential, anodization, sulfuric acid, titanium oxide	
	ABSTRACT: Ti is an electronegative metal. The standard electrode potential of its dissolution in the form of divalent ions Ti ²⁺ is -1.63 v, and in the form of trivalent ions Ti ³⁺ , -1.21 v. Nevertheless, the intense corrosion of Ti, as well as its anodic dissolution in solutions of non-oxidizing acids, occurs in the presence of potentials that are approx. 1 v more positive than the above values, i.e. at -0.45 and -0.25 v. This indicates that the dissolution of Ti during correction and condi-	
	dissolution in the form of divalent ions Ti ²⁺ is -1.63 v, and in the form of tri- valent ions Ti ³⁺ , -1.21 v. Nevertheless, the intense corrosion of Ti, as well as its anodic dissolution in solutions of non-oxidizing acids, occurs in the presence of	

ACC NR: AT6013789

possibility of the existence of both the hydride and the oxides of Ti at the surface of Ti over a broad range of potentials, the more so as it is known that not only the oxides but also the hydride of Ti usually inhibit the corresion "rate of Ti in acids. It has also been observed that prior cathodic polarization inhibits in certain cases the anodic dissolution of Ti. In this connection the authors investigate the effect of the hydride layer, forming on Ti during its corrosion or cathodic polarization, on the electrochemical dissolution and oxidation of Ti. To this end, the anodic potentiostatic curves were plotted for Ti with various duration of prior cathodic polarization of its surface. On comparing curves 1 and 2 in Fig. 1 it can be seen that the hydride layer produced during 1 hr of cathodic polarization sharply inhibits the process of the anodic dissolution of Ti: the limiting passivation current is reduced nearly in half. If this prior cathodic polarization is prolonged for 18 hr, however, an opposite effect is produced: the maximum anodic current increases (curve This is due to the loosening and augmentation of true surface area of Ti owing to the absorption of hydrogen. In the region of active anodic dissolution the surfaces of Ti (whether pure or with hydride layer) get oxidized. The degree of this oxidation increases as the potential changes from its normal value to a positive (anodic) value. Studies of the corrosion resistance of Ti oxides show that the oxides forming in the presence of a potential of +1.0 v in a 3N H2SO4 solution, and particularly in diluted 0.5N or 0.1N H2SO4 solutions, are relatively resistant in the region of active anodic dissolution and in conditions of cathodic polarization.

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he process of the hickness of the xidation, diffi	hydride la usion of Ti	yer then is ions takes p	hardly affe lace from t	cted. In th he metal acr	e course of	anodic Iride layer	
ccurs with hydras: 11 figures		rization is	due to hydr	ide-oxide pa	ssivity. (rig. art.	
UB CODE:	07, 11	SUEM DATE:	19Ju165/	ORIG REF:	013 отн	REF: 008	
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	(/	UR/0000/65/000/000/0208/0	0/HH/WB/GD 219 66 8+1
AUTHOR: Tomashov, N.	D.; Leonov, v. v.		B+1
ORG: none		tur managhtan of hituminaya	coatings 15
SOURCE: Korroziya me		esion of metals and alloys),	· .
structure / St. 3 ste ABSTRACT: Recently p fillers have begun to In this connection, t filler on bituminous bitumen in gasoline, nous coatings), and t different concentrati 80 yr 7 of the film)	aint and varnish coating be widely used to prothe article deals with a coatings. The film-for in the ratio 1:3, used the filler was zinc dust ons of Zn filler (0 to were investigated. Iro	ngs with metal-powder (chiefletect steel structures against elucidating the protective efficient agent used was a primer here to obtain uniform and to (particle size 1 µ). Films 30% vol.%, which corresponde on wire electrodes (of St. 3 in films was determined by me	y Zn and A1) corrosion. /5 fect of zinc (solution of hin bitumi- with d to 0 to steel) were

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ACC NR: AT6013800

quantities measured were: the change in potentials, capacitance and ohmic resistance and corrosion rate of the electrodes when coated with films 0.5 to 500 µ thick and immersed in a 0.5N solution of NaCl. The observed pattern of variation in these quantities indicates that for thick (>10-20 µ) coatings the corrosion rate of the electrodes remains negligibly small. This points to high protective properties of the coating itself as well as of the layer of the dissolution products of Zn forming at the coating's surface. Experiments with pairs consisting of a non-coated electrode and a coated electrode showed that for some time, which is a function of the thickness of coating and its Zn concentration, the coated electrode works as an effective anode with respect to the corrosion medium. A study of the behavior of these coatings in clay and sand with 10% moisture content shows that even thin Znfiller coatings protect iron in soil for a much longer period of time than in liquid electrolytes: this finding points to the great usefulness of Zn-filled bituminous coatings for subsurface structures -- greater than for surface structures or for liquid corrosion media. The mechanism of action of the Zn filler is not confined to the protective electrochemical effect of Zn particles with respect to the protected metal but is also based on the eventual densification of the surface layer of the coating by the relatively insoluble products of the corrosion of Zn. Orig. art. has: 10 figures

SUB CODE: 13, 07, 11, 20/ SUEM DATE: 19Ju165/ ORIG REF: 005/ OTH REF: 002

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UR/0000/66/000/000/0166/0177 SOURCE CODE: ACC NRI AT7004169 Tomashov, N.D.; Matveyeva, T.V. AUTHOR: ORG: none Corrosion and electrochemical behavior of rhenium TITLE: SOURCE: AN SSSR. Institut fizicheskoy khimii. Korroziya i zashchita konstruktsionnykh splavov (Corrosion and protection of structural alloys) Moscow, Izd-vo Nauka, 1966, 166-177 TOPIC TAGS: rhenium, rhenium corrosion, Rhenium electrochemical and presidention, presidention notestial Specimens of rhenium, sintered from 99.9997-pure electrolytic rhenium ABSTRACT: powder, were forged with intermediate annealing in vacuum at 2000C and tested for electrochemical and corrosion behavior in H2SO,, H3PO,, KOH, HNO3 and NaCl solutions of various concentrations at temperatures ranging from 25 to 100C and for time periods up to 200 days. Corrosion tests were made on specimens fully submerged into solutions under conditions of natural aeration. In fully nonoxidizing media, e.g., distilled oxygen-free water, rhenium at 1000 had a very low corrosion rate (0.001 g/m2hr). In nonoxidizing acids (sulfuric, hydrochloric, phosphoric) of any concentration in the presence of air oxygen, the corrosion rate was less than 0.001 g/m2hr at 25C and slightly higher, UDC:

ACC NR AT7004169 max. 0.016 g/m²hr, at 100C. Rhenium had a similar low corrosion rate, less than 0.001 g/m²hr, in distilled water with access to air oxygen at 25C; but at 100C, the corrosion rate was 0.05 g/m2hr, the same as that in 0.8 and 16% NaCl solutions at 100C. Alkalies were found to be more reactive with rhenium than nonoxidizing acids; even at 250 the rhenium dissolution rate in 3 and 10% KOH solutions was 0.015 g/m^2hr . In oxidizing media (hydrogen peroxide solutions at a concentration higher than 0.05%; nitric-acid solutions at a concentration higher than 10%) rhenium corroded readily; its corrosion rate in 40% nitric acid was about 200 g/m²hr and remained practically constant with further increases in the acid concentration. In the investigated solutions, rhenium corrosion has an electrochemical nature, and the corrosion behavior is determined entirely by the kinetics of the anodic and cathodic processes under the investigated conditions. Oxidizing solutions which ensure the effective course of cathodic depolarization shift the stationary potential of rhenium into the positive region (up to ± 1.0 v), which results in a high corrosion rate because of the overpassivation phenomenon. The passivation properties of rhenium are very weak. In nonoxidizing acids at the near-stationary potentials (up to +0.85 v) rhenium is passive (the anodic current is less than 0.001 mamp/cm2). In the same region of potentials (from 40.4 to +0.8 v), rhenium is passive to some extent also in NaCl and KOH solutions but at relatively high current densities (about 1.0 mamp/cm2). Orig. art. has: 7 figures and 1 table. SUB CODE: 11/ SUBM DATE: 278ep66/ ORIG REF: 003/ OTH REF: ATD PRESS: 5116

ACC NR: AP7002390

SOURCE CODE: UR/0020/66/171/005/1134/1137

AUTHOR: Tomashov, N. D.; Strukov, N. M.; Vershinina, L. P.

ORG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fiziches-koy khimii Akademii nauk SSSR)

TITIE: Effect of continuous renewal of the surface of certain metals on the cathodic process of hydrogen evolution

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1134-1137

TOPIC TAGS: cathode polarization, hydrogen, metal surface, lead, tin, iron, nickel, palladium

ABSTRACT: Cathodic polarization curves were recorded for Pb, Sn, Fe, Ni and Pd in 1 N H₂SQ₄ under argon at 20°C while the surface of the metal was being continuously renewed by means of an emery wheel. The electrode was cathodically polarized by an external current source. The data indicate that on nickel, the discharge of H+ ions with the formation of adsorbed atoms and their removal from the electrode surface take place at comparable rates, so that during continuous renewal of the surface the effect of hydrogen overvoltage drop on this metal is appreciable. On lead, however, the hydrogen overvoltage is determined solely by the slowness of the step of discharge of H+ ions, and therefore the continuous renewal of the surface does not substantially affect the hydrogen overvoltage on lead. From the standpoint of their behavior during

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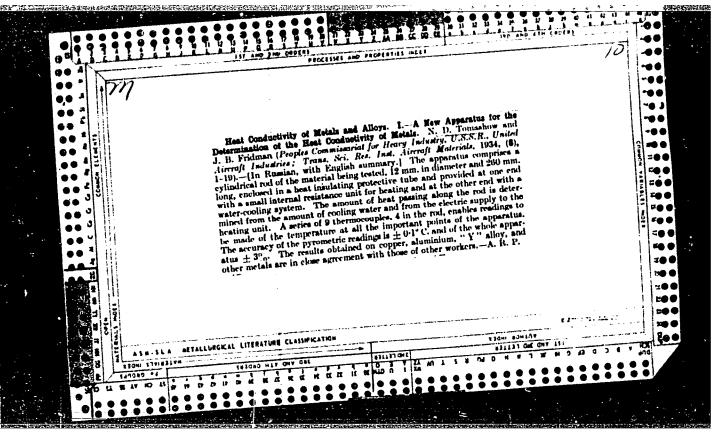
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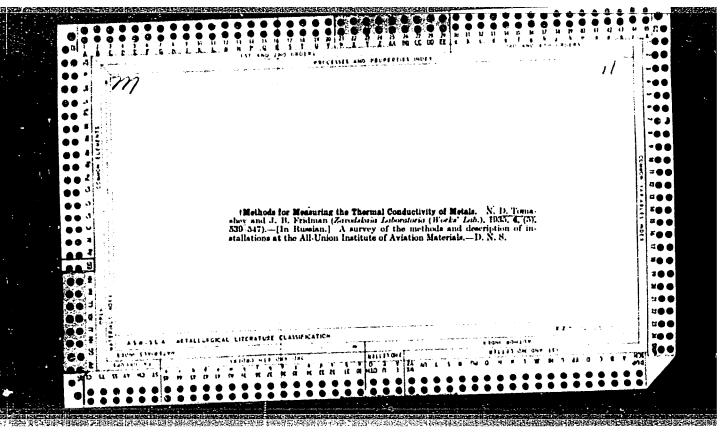
cleaning, the metals studied are divided into two groups: those which adsorb hydrogen well (Fe, Ni, Pd), and those which adsorb it poorly (Pb, Sn). In the latter group, hydrogen overvoltage is solely determined by the slow discharge step. In the former group, hydrogen overvoltage is determined not only by this step, but also by the slowness of the steps involving removal of hydrogen from the metal surface. Thus, for palladium it was found that at the current density employed, 10 mA/cm², 2/3 of the total overvoltage is determined by the slowness of the steps involving removal of hydrogen from the Pd surface, and only 1/3 by the slow discharge step. The paper was presented by Academician Spitsyn, V. I., 22 Mar 66. Orig. art. has: 3 figures and 2

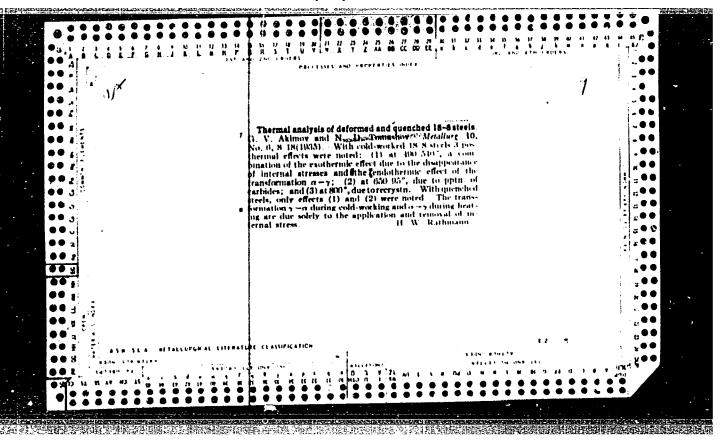
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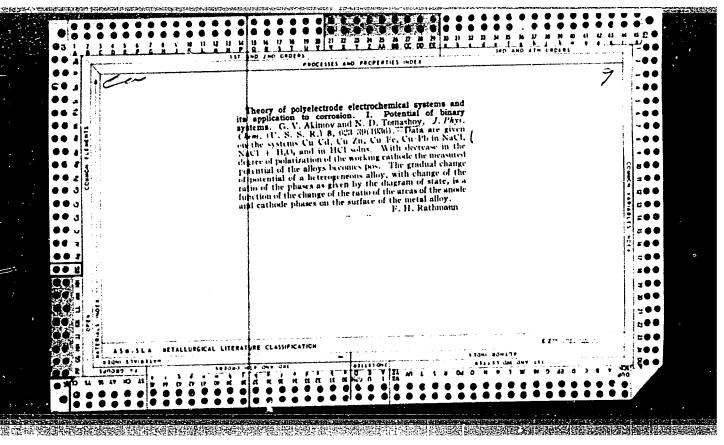
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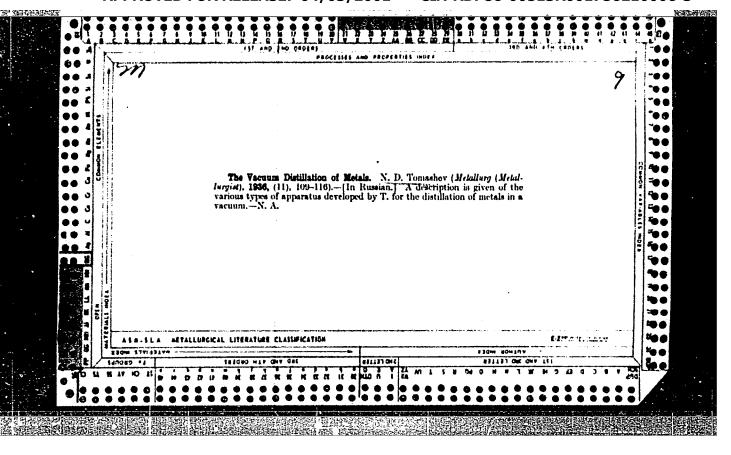
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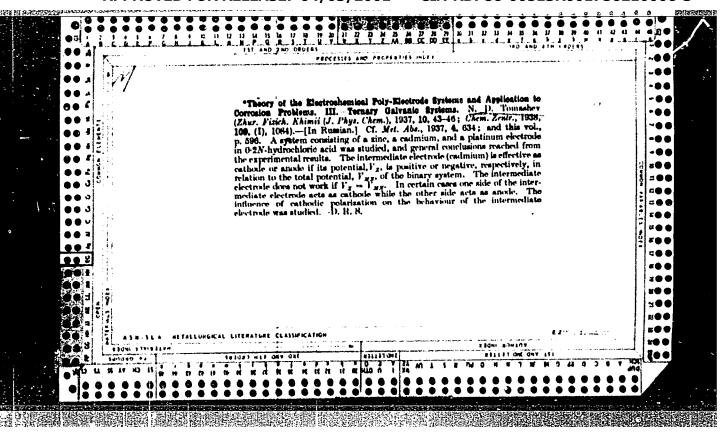


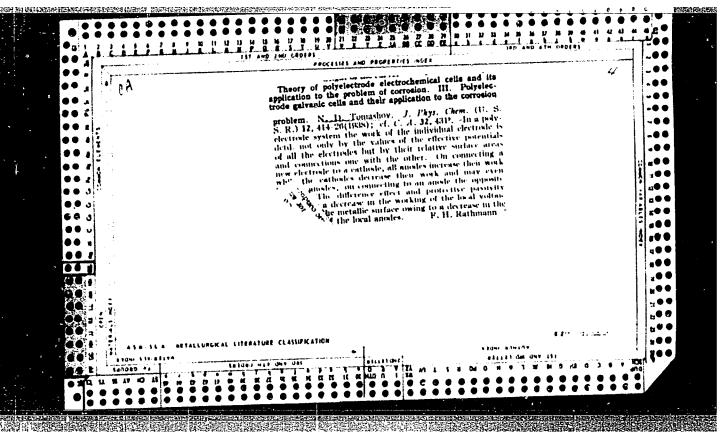


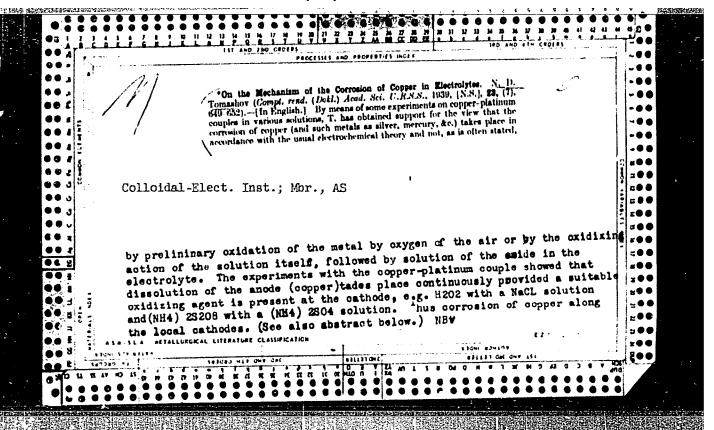


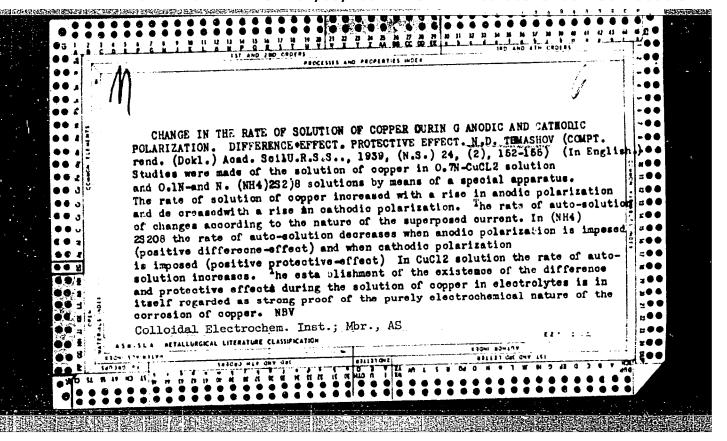












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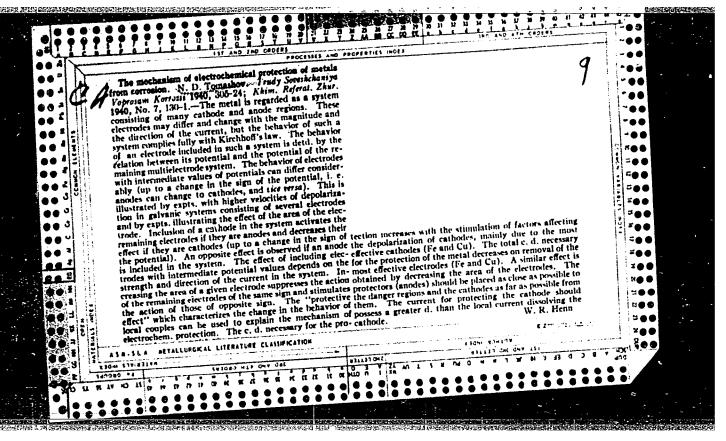
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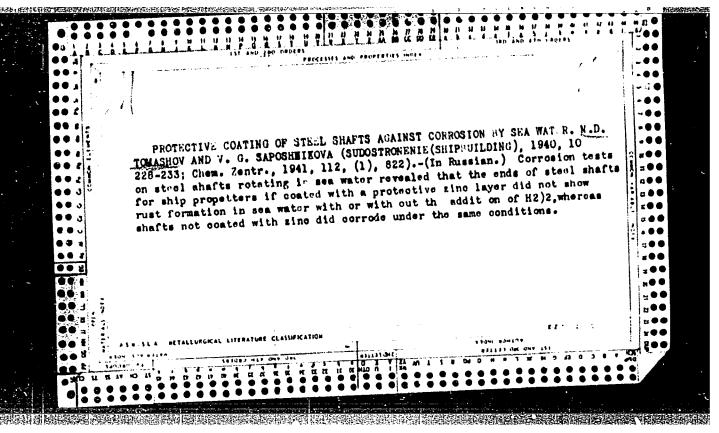
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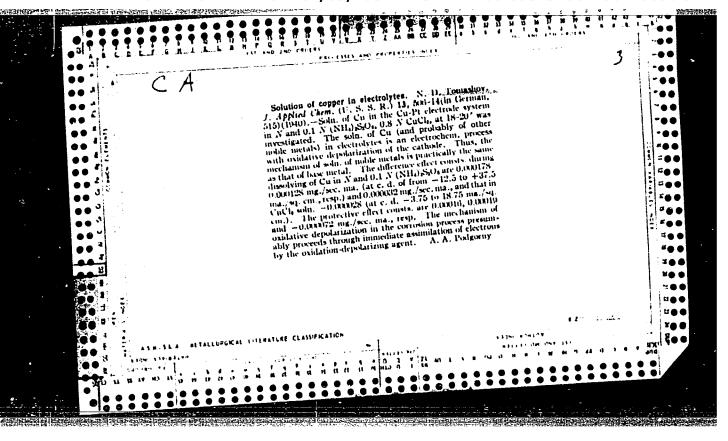
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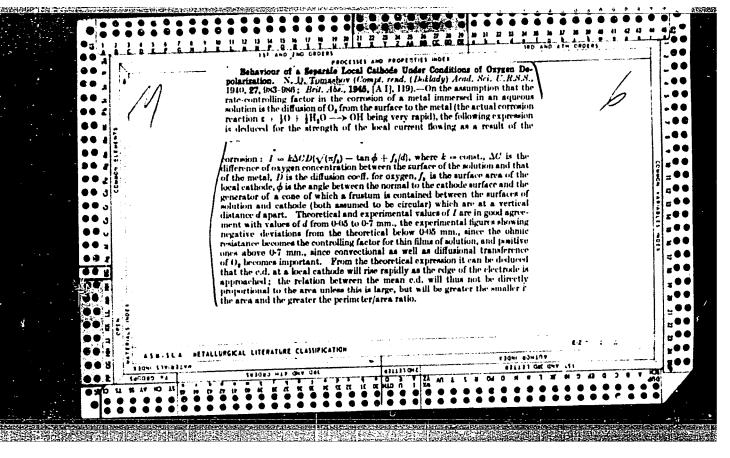
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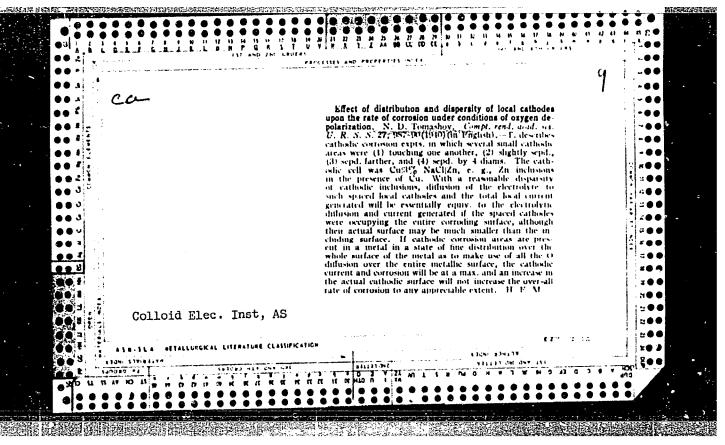
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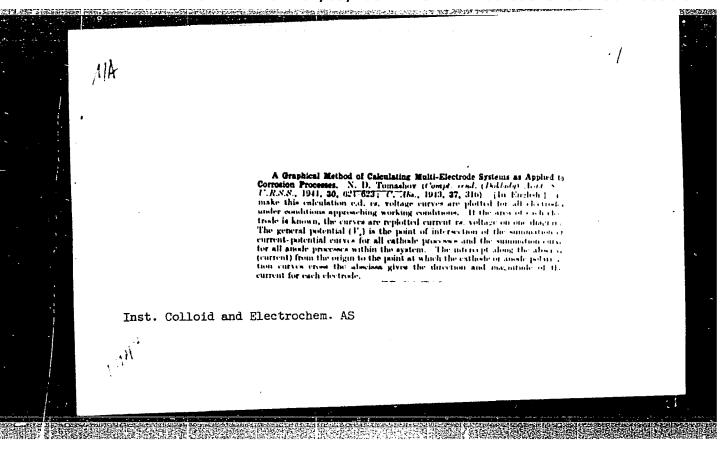








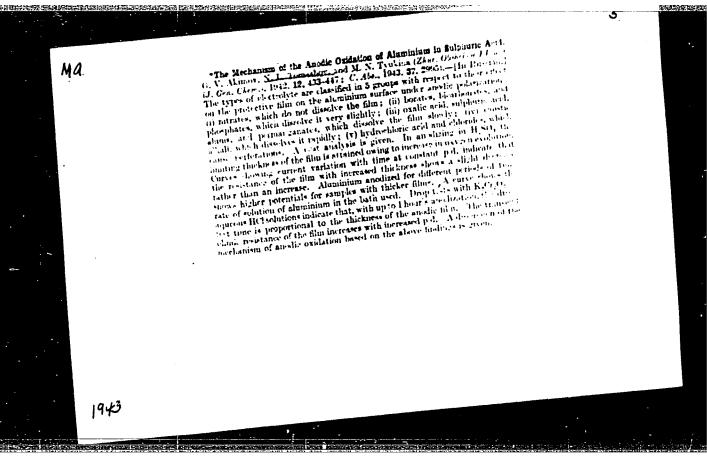


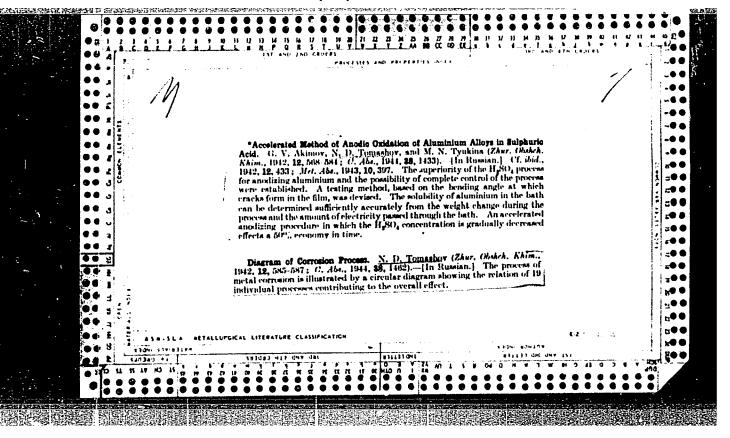


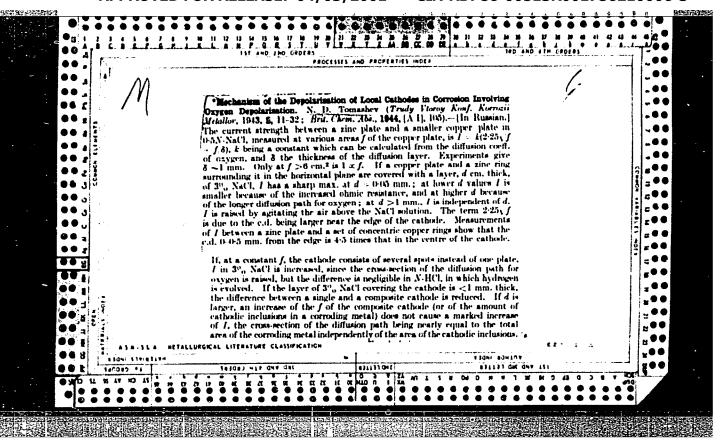
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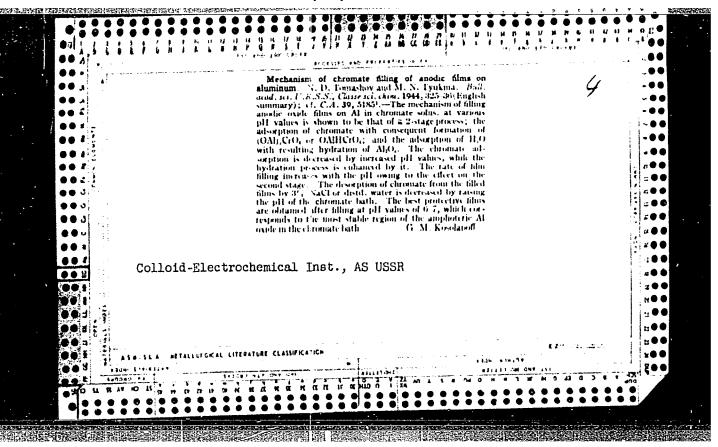
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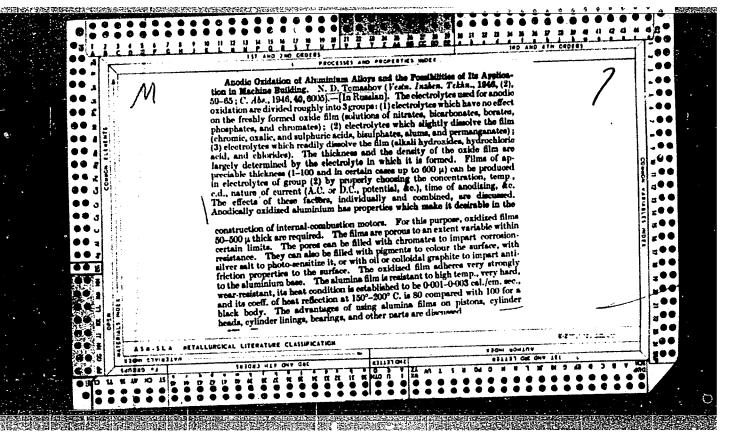
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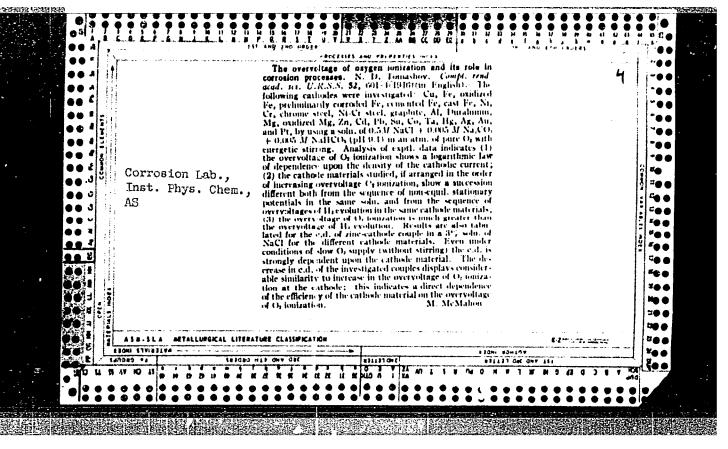


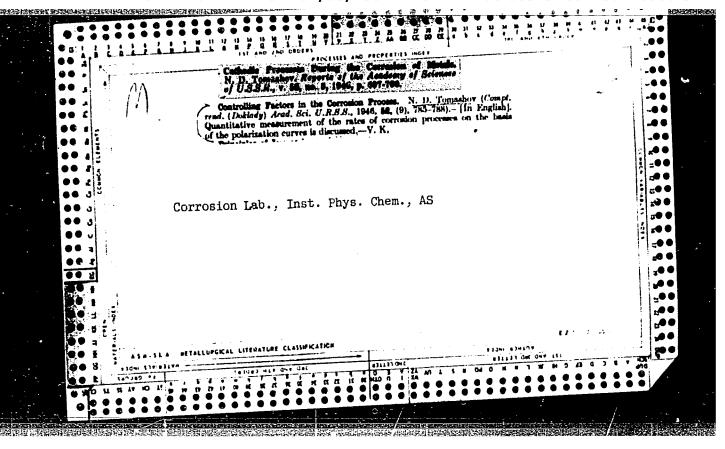


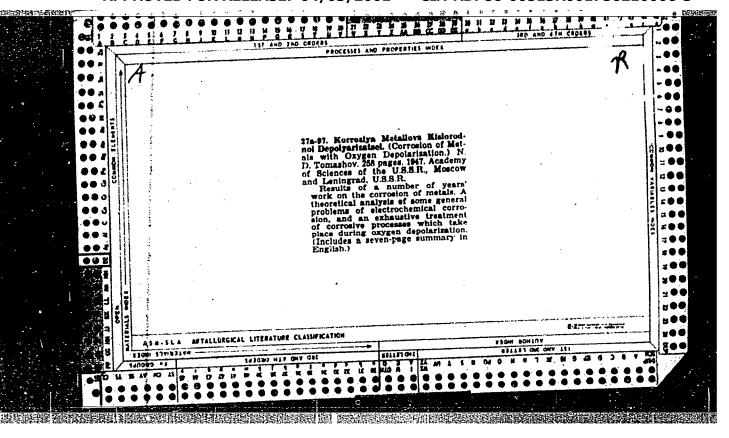


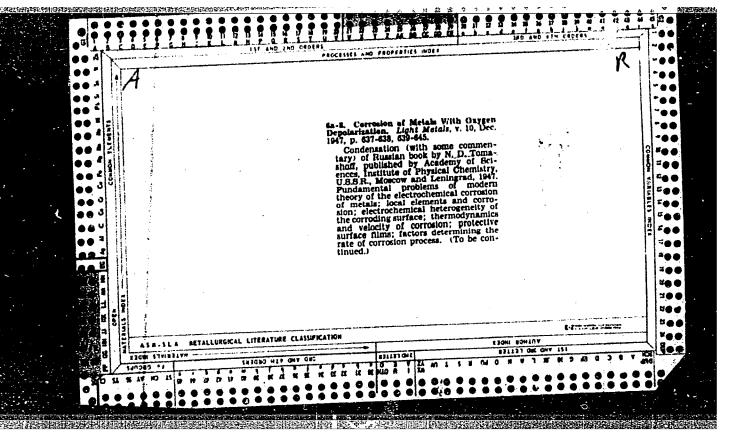












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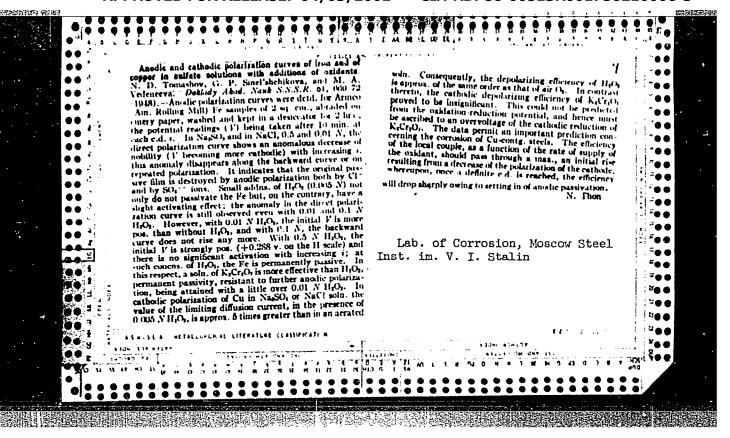
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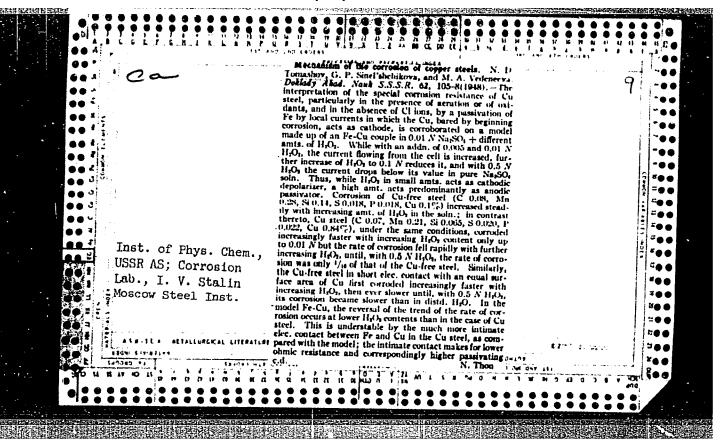
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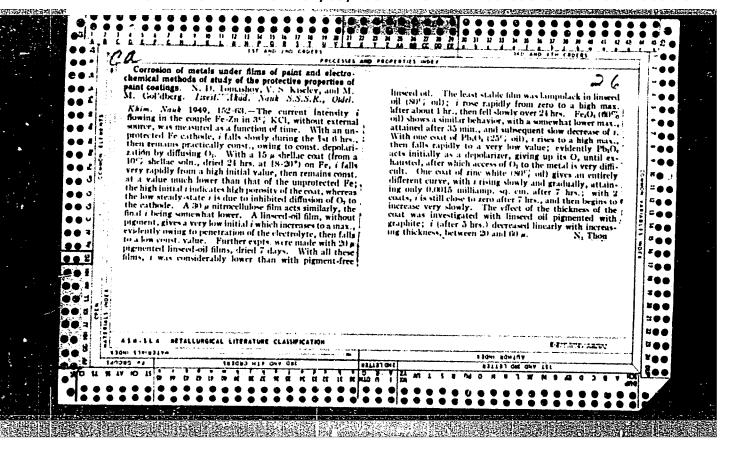
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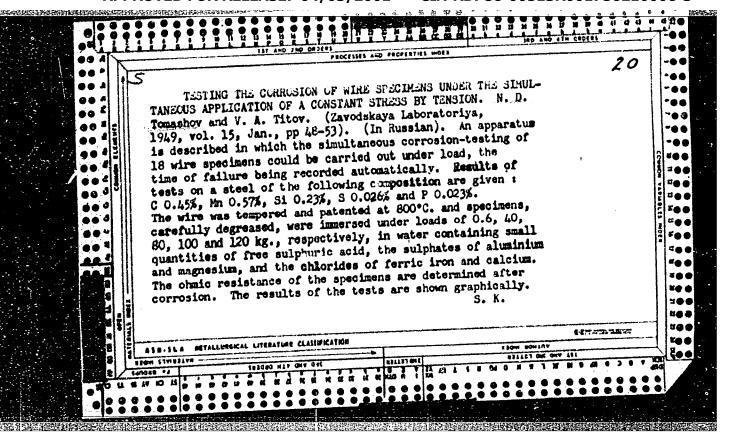
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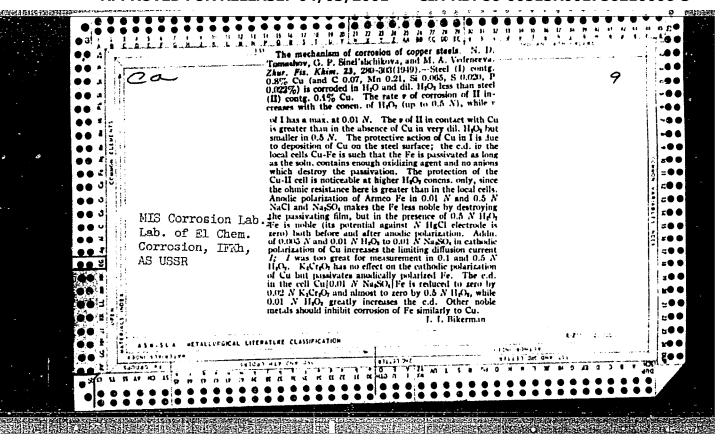
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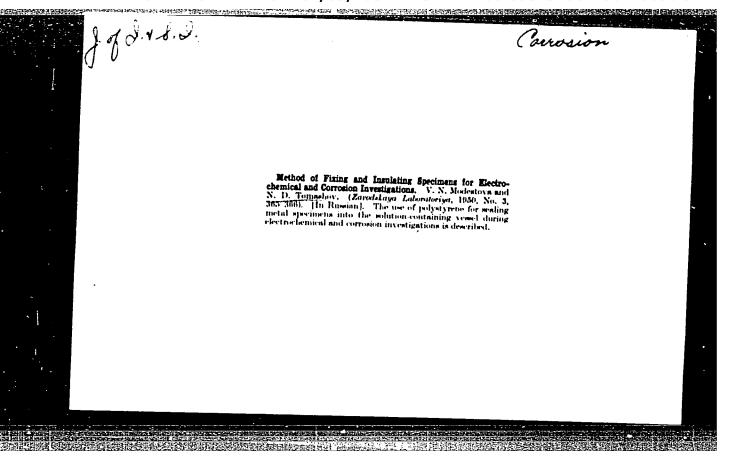
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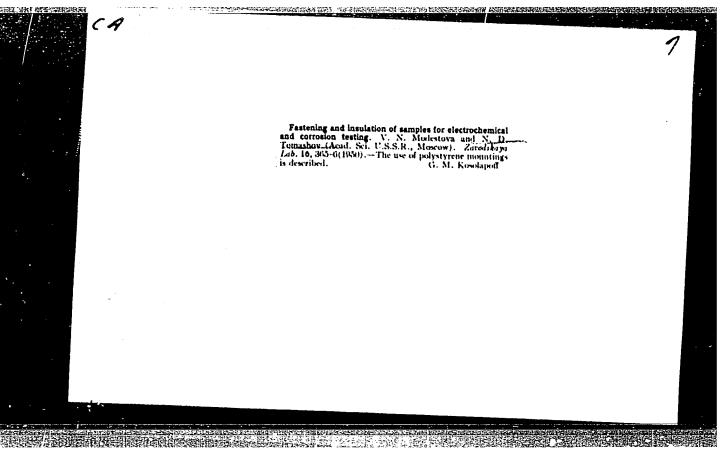
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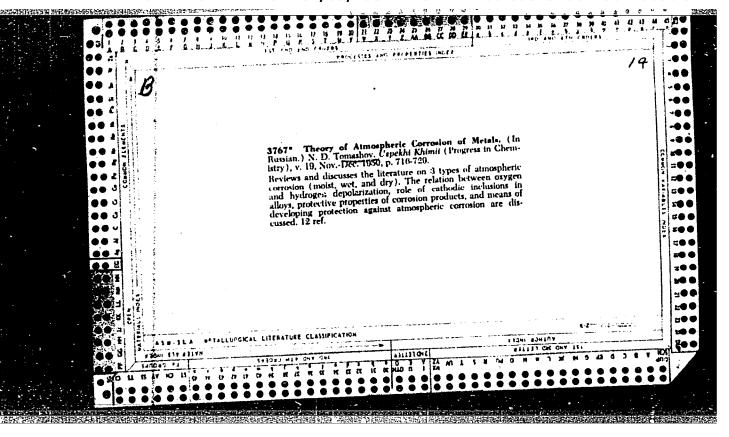


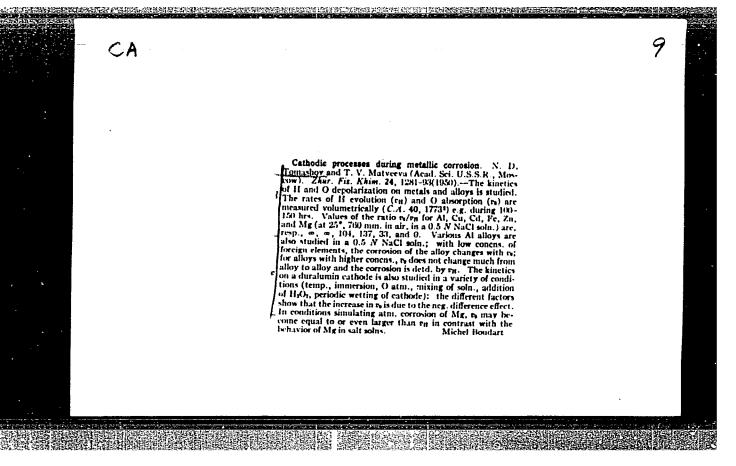
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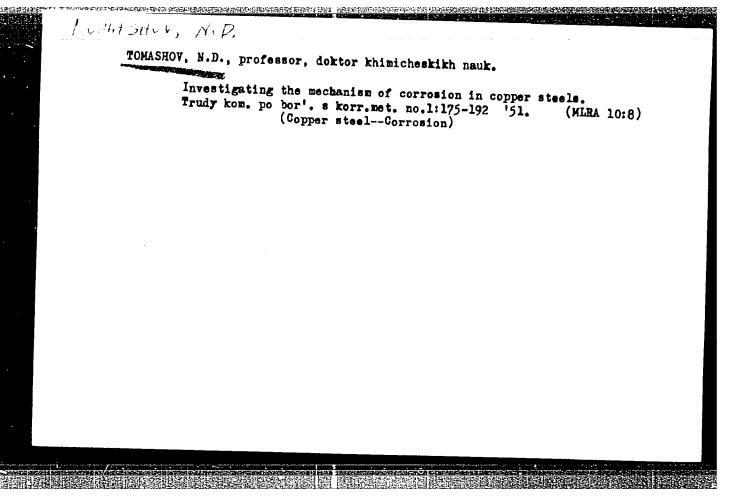
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